UNIVERSITY OF MASSACHUSETTS BULLETIN

University of Massachusetts BOSTON

1966-1967 Catalog

This catalog of the University of Massachusetts at Boston is presented for the reference purposes of the faculty and students of the Boston Campus. General rules and regulations, tuition, fees, requirements for admission, and the academic offerings for the 1966-1967 session are given in this bulletin; however, the right to make changes or withdrawals is specifically reserved by the University, for itself and its departments.

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University of Massachusetts BOSTON

1966-1967 Catalog

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Cover and all other photographs: Frederic Valenti

"This University will respond to the demands and challenges of its urban environment. It must be a community of scholars where the creative instinct is encouraged, where qualitative teaching is fostered, where research is pursued, and where culture and wisdom are passed on to our successors.

"The future of our civilization is in the cities; therefore, we must lead in the development of a curriculum to extend the domains of knowledge and intellectual freedom for the student who will make his future in an urban setting. To do this, we must move into the city to teach, to search, and to serve.

"Our vision is one of a new, public, urban university committed to providing a liberal education of genuine quality. We exist to communicate the truths and values of humanism, and to provide to our society the leadership and creativity which the future will demand."

— Chancellor John W. Ryan —

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The University of Massachusetts at Boston is situated at 100 Arlington Street at the corner of Stuart Street. Constructed in 1926-27, the building has thirteen floors above ground level and two below. Its exterior walls on the street sides are of Indiana limestone. Ornamental arches decorate the entrance areas and the top floor. Occupied for many years as a modern office building, the structure is now used as an educational center in a great metropolitan area.

CORRESPONDENCE

Inquiries regarding the general program of the University should be directed to:

Office of the Chancellor
University of Massachusetts at Boston
100 Arlington Street
Boston, Massachusetts 02116

Inquiries regarding admission should be directed to:

Mr. F. Donald Costello
Admissions Office
University of Massachusetts at Boston

Inquiries regarding financial aid, work-study programs, scholarships, and loans should be directed to:

Mr. Walter McDonald
Office of Student Affairs
Director of Financial Aid
University of Massachusetts at Boston

ACADEMIC CALENDAR

Fall Term

			1966
Monday	September	19	Registration, Class of 1969 and transfers
Tuesday	September	20	Registration, Class of 1970
Wednesday	September	21	Classes begin
Wednesday	October	12	Holiday
Saturday	November	5	Mid-term grades close
Friday	November	11	Holiday
Wednesday	November	23	Thanksgiving recess begins after last class
Monday	November	28	Classes resume
Tuesday	December	6	Counseling Day and Preregistration
Thursday	December	22	Christmas recess begins after last class
			1967
Tuesday	January	3	Classes resume
Friday	January	13	Last day of classes, start of reading period
Friday	January	20	Final examinations begin
Saturday	January	28	Last day of final examinations

Spring Term

Friday	February	3	Registration — all students
Monday	February	6	Classes begin
Wednesday	February	22	Holiday
Friday	March	17	Holiday
Saturday	March	25	Mid-term grades close
			Spring recess begins after last class
Monday	April	3	Classes resume
Wednesday	April	19	Holiday
Thursday	May	11	Counseling Day and Preregistration
Friday	May	19	Last day of classes, start of reading period
Friday	May	26	Final examinations begin
Tuesday	May	30	Holiday
Saturday	June	3	Last day of final examinations

THE UNIVERSITY OF MASSACHUSETTS AT BOSTON

The University of Massachusetts is the State University of the Commonwealth, founded in 1863 under the Morrill Land-Grant Act passed by the United States Congress in July, 1862. Now in its second century, the University serves the state and the nation in higher education as well as in research and public service. Chartered as the Massachusetts Agricultural College on April 29, 1863, the institution was established at Amherst and formally opened its doors to a handful of students in 1867.

The General Court of Massachusetts authorized a second name, Massachusetts State College, in April, 1931. Sixteen years later, in May, 1947, the institution became the University of Massachusetts.

Under the authorization of Chapter 562 of the Acts of 1964 (General Laws of the Commonwealth of Massachusetts), the University of Massachusetts at Boston opened in September, 1965, extending opportunities to increasing numbers of students in the greater Boston area.

The University's curriculum consists of a strong core in the liberal arts and sciences, with additional opportunities for work in professional fields to be developed in the future. With its low tuition, the University is designed for the commuting student who can take advantage of the intellectual, cultural and recreational life of a great metropolitan center. The operation of both campuses of the University of Massachusetts under a single governing board brings new service to public higher education in the Commonwealth.

Policy and Objectives

The University of Massachusetts at Boston, in the ancient academic tradition, is a distinguished company of scholars and teachers devoted to intellectual freedom and integrity, and to preserving and teaching the accumulated knowledge and wisdom of generations.

It is a community dedicated to helping man extend knowledge and put it responsibly to use. It provides a range and depth of experience, insists upon critical thinking, fosters creative abilities, and increases power to convey ideas. To graduate liberally educated people is the first task of the University. It encourages its members to seek mastery over language (their own and one or more foreign tongues); to gain insight into the cultures which these languages express; to experience the values of formal thought; to acquaint themselves with the disciplines which deal with animate and inanimate nature; to be aware of the methods and results of the sciences which investigate man, his institutions and his culture; and to comprehend the relation of man's ideals and aspirations to his experience as interpreted by the various disciplines.

The University encourages its members to learn the importance of justifying their beliefs and actions, examining the consequences thereof, and finally liberating themselves from the bondage of uncritical opinion. Finally, it expects them to apply and extend knowledge. For these latter purposes especially, the University must see that its members devote extensive study to particular areas of knowledge. All instrumentalities of the University — facilities, curriculum, influence over student life, choice and support of the faculty — are directed to these ends.

GENERAL INFORMATION

STUDENT SERVICES

Library

The library occupies the entire fourth floor of the building. Its collection is expanding rapidly. As of August 1, 1966, it contained 35,000 volumes, and there were current subscriptions to 953 periodicals. American and foreign cities are represented by newspapers in a variety of languages. Over 90% of the seating is at individual study carrels.

Language Laboratories

In use for only one year, the language laboratories of the University of Massachusetts at Boston have the most modern electronic equipment available. With seventy-one student positions in three different laboratories, they constitute one of the largest facilities in the area.

These modern laboratories afford students the opportunity of extended contact with the foreign language being studied, facilitating the formation of language habits. The tapes used in laboratory sessions are closely correlated with classroom studies, and the recordings made by students during laboratory sessions can be played on standard recorders at home for advanced, individual study in such fields as drama, literature and music.

Students enrolled in courses which use the facilities of the language laboratories are required to pay a laboratory fee.

Faculty Advisory System

Each student is assigned to a faculty adviser. A student will ordinarily see his adviser when he has questions about selection of courses, school or departmental requirements, change of major, or other problems that are primarily of an academic nature. He sees his adviser for mid-semester marks. A change of major ordinarily entails a change of adviser. The University also forwards reports of academic standing to the parents. Both students and parents are encouraged to consult with the adviser whenever there are problems regarding studies or personal adjustments to college life.

Office of Student Affairs

The Office of Student Affairs includes, either completely or in cooperation with other offices, the following areas:

Counseling
Discipline
Financial Aid
Food Services
Health Services
Placement
Registration and Records
Student Activities
Reading and Study Skills
Research and Testing
Orientation
Religious Activities
Veteran's Advisory
Handicapped Students

The University of Massachusetts at Boston does not authorize or recognize any social fraternities or sororities.

For further details, students are urged to consult the Student Handbook.

Housing

The University of Massachusetts at Boston is a commuting institution. Living arrangements are the concern and responsibility of the students and their parents.

Health Services

The University maintains Health Services for men and women students. The purpose of this department is to help prevent loss of student time and energy from educational pursuits for reasons of health. Clinic facilities are available. A registered nurse is on duty during school hours and a physician is in attendance on an appointment basis. The physical examination and medical history of each student is reviewed by a physician before registration.

Health services are partially supported by the Health Service Trust Fund to which each student pays $10.00 each semester. Students may enroll in the University of Massachusetts Blue Cross-Blue Shield Student Plan. This fee entitles the student to extensive but not total hospital services, in-patient physicians' care, out-patient surgical care, accident insurance, etc. Students are covered on and off the campus for the entire year with protection beginning September 1. This protection continues for the year even if the student withdraws from the University. A full description is available at the Treasurer's Office of the University.

ADMISSION

When and How to Apply

Applications for admission may be obtained by writing the Admissions Office, University of Massachusetts at Boston. High school seniors are advised to file their applications as soon as possible. If they are to be considered during the normal processing, applications should be received by *March 1*. Thereafter, they may be considered only as vacancies occur. An autobiographical letter must be submitted with the application. *There is no application fee at the University of Massachusetts.*

Tests Required

All applicants must take the Scholastic Aptitude Test, given by the College Entrance Examination Board. The University requires three College Board Achievement tests, including English Composition. All College Board Test reports must be sent *directly* to the Admissions Office, University of Massachusetts, Amherst, Massachusetts 01002, from the College Board Testing Center. The applicant himself must notify the Board that he wishes his scores sent to this University.

Visits and Interviews

The University invites each candidate to visit the Boston campus. The University will hold a group meeting for visitors every Tuesday and Thursday afternoon at 3:30. This will be an appropriate time to tour the new campus and ask questions. An applicant should be assured, however, that if he is unable to visit Boston his application will be in no way disadvantaged.

A personal conference may be scheduled if the University deems it necessary or if the candidate or his guidance counselor has a question that cannot readily be resolved otherwise.

Acknowledgement and Notification

In most cases applicants will be notified by letter during April of the action taken on their applications. Applicants who present strong academic records, enthusiastic school recommendations, and satisfactory College Board scores will receive earlier notification. This early notification should reassure the well-qualified applicant regarding college entrance and enable the student who has selected the University as his choice of college to settle his plans. Applicants accepted at an early date, however, are under no pressure to make a final decision in regard to their choice of college before the Candidate's Reply Date. In this way the burden of multiple applications on high school guidance counselors and college admissions officers may be lessened.

Out-of-State Students

The University admits a limited number of well qualified out-of-state applicants.

Entrance Deficiencies

Candidates who are deficient in one or more subjects required for admission to the University must present records which are otherwise stronger than average. Two years of one foreign language and three years of college preparatory mathematics are required.

Transfers

A limited number of transfers from approved colleges may be admitted. Since applicants for such transfer exceed the number that can be accepted, they are placed on a competitive basis. Ratings will be based upon high school and college records and on the College Board Scholastic Aptitude tests, which are required of all transfers. Any student who has been previously enrolled in a college is considered a transfer and must file a transfer application form. Applicants for transfer should write the Admissions Office for a Transfer Application. At least 45 semester credits taken in residence at the University are required of all transfers who are candidates for the Bachelor's Degree.

Subject Requirements

The subjects of preparatory study required for admission call for the satisfactory completion of a four-year high school course or its equivalent and are stated in terms of units. A unit is the equivalent of at least four recitations a week for a school year. High school graduation alone is not sufficient. The applicant's record must indicate capacity for handling the quality of scholastic work which the University has established as its standard of achievement. Sixteen units of secondary school work must be offered, selected according to the following requirements:

College Preparatory Mathematics	3*
English	4
Foreign Language (2 years of 1 language)	2
U. S. History	1
Laboratory Science	1

The remaining units are elective and may be selected from the following subject matter:

a. Mathematics
b. Science
c. Foreign Language
d. History and Social Studies
e. Free electives (not more than four units)

*Preferably two years of Algebra and one of Plane Geometry.

Free elective subjects are those not included in groups a-d, as for example: music, art, drawing, typewriting, aeronautics, agriculture, home economics, etc. Such free electives are allowed in order that the student who wishes may have some opportunity to elect other high school offerings, while at the same time covering the fundamental requirements for college work.

Students planning to major in the physical sciences and mathematics should, if possible, offer two years of algebra, one of plane geometry, and one-half year of trigonometry. Preparation in analytical or solid geometry, chemistry, physics, and introductory calculus is also strongly recommended.

Advanced Placement

Students whose scores on Advanced Placement examinations meet standards determined by the University shall be regarded as meeting the equivalent University requirements. The College Entrance Examination Board Advanced Placement examinations or special examinations given by the University will be used in determining advanced placement.

Students who wish to continue the study of a language in which they have had previous training are required to take an appropriate placement test. Placement tests are administered by the University prior to registration for the fall term. Students will be placed at the level of study indicated by the results of the tests; the intermediate level requirement may be met by achieving an adequate score in the placement test.

TUITION, FEES AND EXPENSES

Tuition

As a state institution the University of Massachusetts at Boston offers a low rate of tuition to all students entering from the Commonwealth. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the Board of Trustees.

A student must present evidence satisfactory to the Treasurer of the University that his domicile is in the Commonwealth of Massachusetts in order to be considered eligible to register in the University as a resident student. This means that he must have established a "bona fide" residence in the Commonwealth with the intention of continuing to maintain it as such.

The domicile of a minor shall follow that of the parents unless such minor has been emancipated. In case of emancipation, the student, in addition to the requirements of these regulations respecting residence, shall present satisfactory proof respecting emancipation. Minors under guardianship shall be required to present, in addition to the certification of the domicile of the guardian, satisfactory documentary evidence of the appointment of the guardian. No student shall be considered to have gained residence by reason of his attendance in the University, nor shall a student lose residential preference during his continuous attendance at the University. The residence of a wife shall follow that of the husband. The prescribed form of application for classification as to residence status must be executed by each student. Misrepresentation of facts in order to evade the payment of out-of-state tuition shall be considered sufficient cause for suspension or permanent exclusion from the University. Discretion to adjust individual cases within the spirit of these rules is lodged with the President of the University.

Expenses

Expenses vary from approximately $350 to $450 per year for the normally economical student. The following estimate of a year's expenses includes only those items which are strictly college-related. Tuition for residents of Massachusetts is $200 per year and for others $600.

Tuition	$200.00
Student Activities Fee	30.00
Health Services Fee	20.00
Student Medical/Surgical Insurance 12 months coverage (optional)	30.00
Books, stationery, laboratory and other supplies (estimate)	100.00
	$380.00

There is no provision made for room and board expenses as the University of Massachusetts at Boston is non-residential.

Initial Payment for Freshmen

The initial payment for first semester expenses required of freshmen at the time of Fall registration, and other expenses reasonably to be expected, are indicated below:

Tuition	$100.00
Student Activities Fee	15.00
Health Services Fee	10.00
Student Medical/Surgical Insurance 12 months coverage (optional)	30.00
Books, stationery, laboratory and other supplies (estimate)	50.00
	$205.00

The figures for books, stationery, etc., are approximate: they vary depending upon courses chosen and individual needs. Students should be prepared to pay cash for books and incidental supplies. Certain departments make special charges for necessary laboratory supplies. A bill will be rendered to the parent of each student prior to the beginning of the semester.

Student Activities Fee

This fee is used to support programs and activities beneficial to students.

Student Health Fee

This fee is used to provide the University Health Services and support its programs.

Medical/Surgical Insurance

This is an optional plan providing hospital, medical, and surgical care on a twelve-month basis for injuries or illness during the school year, holidays and summer vacation. Students who register for the Fall semester have only one opportunity to enter or reject this program each year, at the time of payment of the Fall semester bill. It is also offered on the Spring semester bill for new spring registrants only. Dependents of married students are not covered under this plan.

Payment Due Dates

In accordance with University policy all charges for tuition and fees are due and payable approximately twenty-one days prior to the date of registration of each semester. Bills will be rendered in advance with due date shown and should be returned with the proper payment to the Office of the Treasurer, University of Massachusetts at Boston, 100 Arlington Street, Boston, Massachusetts 02116. Students may not register until all University charges are paid or otherwise accounted for.

Scholarship Payments

It is the responsibility of all scholarship holders to see that the University is adequately notified prior to the time fee bills are prepared. Known scholarships are shown on the fee bills. If such items are not shown, deductions may not be made from the bill until satisfactory evidence has been presented to the Treasurer of the University by the donor.

Late Payment and Registration

Any student who does not make payment of his semester charges by the date specified may be required to pay a late payment fee of $5.00.

Credit by Special Examination

Students receiving credit by special examination must pay $5.00 per credit before the examination may be taken. This fee is non-refundable.

Tuition and Fee Refunds

A student who leaves the University for any reason, except as specified below, before a semester is completed will be granted a pro rata refund of tuition and fees. A student who makes an advance payment and then for any reason does not attend any part of the next semester or term at the University will be given a full refund of tuition and fees. The $15.00 admission (matriculation) payment required of new students is not refundable. A student called into military service before completion of a semester will be given a pro rata refund of tuition and fees provided that he receives no academic credit for the work of that semester. If academic credit is given, there will be no refund. A student who is suspended or expelled from the University for disciplinary reasons forfeits all rights to a refund.

Refund Schedule

Regular Term

a. Within the first two weeks from the beginning of semester or term (Registration Day) 80%

b. During the third week 60%

c. During the fourth week 40%

d. During the fifth week 20%

e. After the fifth week ..... no refund

FINANCIAL AID

Financial Aid is awarded through scholarships, loans, work-study programs and part-time placement to students whose academic achievement is at a reasonably high level, and who cannot meet the full costs of an academic year at the University through their own and their family's efforts. University scholarships are awarded only to residents of Massachusetts.

1. Who Should File

All students who expect to seek University financial aid of any sort during their first year should apply by completing and submitting the Parent's Confidential Statement of the College Scholarship Service. Additional forms may be required for specific types of aid.

2. Application Procedure for Scholarships

A. Obtain a copy of Parent's Confidential Statement prepared by the College Scholarship Service from the secondary school guidance office.

B. Complete the form and mail directly to the College Scholarship Service in Princeton, New Jersey. The University of Massachusetts at Boston should be listed under Item 13.

C. The Parent's Confidential Statement should be filed when the admissions application is sent or no later than March 1 of the admissions year. The Parent's Confidential Statement is the official application and no other document is required.

Loans

Loans may be used to provide supplementary assistance to students receiving scholarships or to help students with genuine need where scholarship funds are not available.

The major source of loan funds for freshmen is the National Defense Student Loan Fund. On these loans, interest is not charged and repayments are not expected (1) while the recipient is a full-time student in college or graduate school; (2) while he is in the service (for up to three years); and (3) for one additional year. Interest then is at the rate of 3% per year and repayments may be made in ten equal annual installments. Students planning to enter a career in teaching should note that 10% of the loan can be cancelled for each year of teaching. The maximum amount that can be cancelled under this provision is 50%.

Application Procedure for Loans

A. Obtain copy of Parent's Confidential Statement prepared by the College Scholarship Service from the Office of Student Affairs. If applying for both scholarship and loan only one such statement is required.

B. Complete the form and mail directly to the College Scholarship Service in

Princeton, New Jersey. The University of Massachusetts at Boston should be listed listed under Item 13.

C. The form should be filed when the admissions application is sent or no later than March 1 of the admission year.

D. Also write directly to Placement and Financial Aid Services, University of Massachusetts at Boston, 100 Arlington Street, Boston, Massachusetts 02116, for an NDS Loan application. Students who do not submit a separate loan application will not be considered for a loan.

Determination of Need

Need is determined by comparing the estimated college cost for an academic year (see page 12) with a reasonable contribution by the applicant and his family.

Awards will be made by means of an award letter at the time of the applicant's acceptance when possible or as soon thereafter as convenient. Further communication with the Placement and Financial Aid Services is unnecessary as each applicant will receive an answer as soon as a decision is made on his application.

GENERAL ACADEMIC REGULATIONS

Conduct

The customary high standard of college men and women in honor, self-respect, and consideration for the rights of others constitutes the ideal student conduct. The privileges of the University will be withdrawn from a student at any time if such action is deemed advisable. It should be understood that the University, acting through its President or any administrative officer designated by him, distinctly reserves the right not only to suspend or dismiss students but also to name conditions under which they may remain in the institution. Hazing in the sense of the punishment or humiliation of students is not permitted. The University of Massachusetts at Boston does not authorize or recognize any social fraternities or sororities.

Attendance

The attendance of students at all regularly scheduled classes at the University of Massachusetts at Boston is expected. No administrative control of attendance is exercised except as hereinafter provided. In case of illness, students are to explain absences directly to their instructors. The grade of the student who has met the requirements of the instructor in making up the work shall not be reduced for absence because of illness.

Grade Reporting and Related Regulations

Enrollment in and graduation from the University involve both quality and quan-

tity of work. The quantity of work is measured by the credits obtained by successful completion of courses. The quality of work is measured by grades. Each grade is equated with a quality point as noted below.

Grades

Grades shall be reported according to the following letter system. No other interpretation of this letter system shall be authorized.

A — Excellent

B — Good

C — Fair

D — Conditionally Passing-Unsatisfactory

F — Failure

Inc. — Incomplete

The grade of Incomplete shall be reported only when a portion of the assigned or required class work, or the final examination, has not been completed because of the student's serious illness, extreme personal circumstances, or for scholarly reasons at the request of the instructor. If the student's record is such that he would fail the course regardless of the result of the missing work, he shall fail. A student can obtain credit for an Incomplete only by finishing the work of the course within the first three weeks of the following semester. The grade of Incomplete is converted to a failure if the course requirements have not been satisfied by that time. Exceptions to the three week deadline may be requested from the appropriate agency in cases of protracted illness, critical personal problems, or for scholarly reasons at the request of the instructor. The initiative for removal of the Incomplete grade rests with the student.

An Incomplete on a final grade report is calculated as an F in arriving at a temporary quality point average. When the Incomplete is later converted to a grade, the permanent record is changed and the student is notified.

Once a grade is submitted, it cannot be changed except on approval of the Division Chairman.

Quality Points

Quality points per semester are assigned to course grades as follows: A,4; B,3; C,2; D,1; F,0; these points are then multiplied by the number of course credits.

Semester and Cumulative Grade Point Averages

To compute the semester grade point average, the total of quality points earned is divided by the total of credits carried, which includes the total credits earned and failed in that semester.

To compute the cumulative grade point average, the total quality points earned

is divided by the total credits carried, which is the sum of the total credits earned and failed in all semesters to date.

Semester and cumulative grade point averages are recorded to one decimal place. At the end of the senior year, the cumulative average for a student's academic work is recorded to two decimal places.

In computing cumulative grade point averages the following will *not* be included:

1. Courses for which the student does not receive credit toward the degree.
2. Grades not earned at the University.
3. Courses satisfied by advanced placement.

This means that the cumulative credits carried on each semester's grade report do not necessarily reflect the credits which have accrued toward graduation.

Cumulative Index Required for Good Standing

Term	Credits	Cumulative Average
1	16	1.5
2	32	1.6
3	48	1.65
4	64	1.7
5	79	1.75
6	94	1.8
7	109	1.9
8	124	2.0

Cumulative Index Required for Retention

Dismissal from the University for scholastic reasons shall be based upon regulations to be administered by the Committee on Admissions and Standards. Changes in these regulations may be recommended by the Faculty Senate. The following cutting points have been set.

Term	Credits	Cumulative Average
1	16	1.0
2	32	1.2
3	48	1.3
4	64	1.5
5	79	1.6
6	94	1.8
7	109	1.9
8	124	2.0

Any student who fails to meet the retention average will be dismissed and charged with an academic dismissal.

Transfers and Returning Students

A transfer or returning student must satisfy the cumulative index requirement for good standing, and is required to meet the academic standards of the class to which he is assigned.

Scholastic Probation

Any student whose cumulative average falls between the requirement for retention and the requirement for good standing shall be considered on scholastic probation. No academic dismissal is charged.

While on scholastic probation students shall not be eligible to hold office in any recognized student organization, to represent the University in any sense on or off campus, or to participate in any non-academic extra-curricular activities (including athletic, dramatic, musical and publication activities).

The Committee on Admissions and Standards shall be charged with modifying, extending, or limiting the restrictions on a student during a period of Scholastic Probation and determining the limit of its duration, and shall report all such modifications to the Faculty Senate.

Scholastic Warning

Any student whose semester average is below the cumulative average required for retention shall be warned by a statement on the bottom of both his copy and his parents' copy of the grade report. This warning is to indicate that continued below-standard performance will result in failure to graduate or academic dismissal.

Failures

A failed course in a subject required for the degree must be repeated. If the failed course is not required, a substitution may be made upon the approval of the Area Chairman. Although repeated, the original failed course continues as a part of the student's quality point and course record.

Repeated Courses

A course once passed may not be repeated for a higher grade.

Deficiencies

The student admitted with deficiencies is required to make up his deficiency with no credit before being allowed to register for more than 8 hours of regular college work.

Final Examinations

When the examination schedule is published, any student who finds himself scheduled for two examinations at the same time is to report this situation directly to the University Registrar.

Graduation Requirements

It is the responsibility of the individual student to review his own progress toward graduation and the fulfillment of the University's requirements. Through his own initiative, he should address questions concerning these matters to his adviser or Division Chairman.

ACADEMIC PROGRAM AND GRADUATION REQUIREMENTS

The University offers instruction in the humanities, the social sciences, the natural sciences and mathematics. The program provides for the breadth of intellectual development essential to a liberal education, and for the concentration necessary for competence in a selected discipline.

The successful completion of the four-year curriculum will lead to the degree of Bachelor of Arts.

Course Pattern

The curriculum of the University conforms to the following basic conditions: Four courses Freshman year; Four courses Sophomore year; Five courses Junior year; Five courses Senior year.

All students must complete requirements for a major, and must have at least 124 credits for graduation.

Major Programs Available

DIVISION OF HUMANITIES

Chief Adviser: Professor Alvan S. Ryan

English	Italian	Russian
French	Philosophy	Spanish
German		

DIVISION OF SOCIAL SCIENCES

Chief Adviser: Professor Paul A. Gagnon

Economics
Economics-Business combination (for B.A. degree)
History
Politics
Psychology } Social Relations
Sociology } Social Relations

DIVISION OF NATURAL SCIENCES

Chief Adviser: Professor Ernest I. Becker

Biology	Chemistry	Physics

DIVISION OF MATHEMATICS

Chief Adviser: Professor Taffee T. Tanimoto

Mathematics

Students may also prepare at Boston in Pre-Law, Pre-Medical, Pre-Dental and Pre-Veterinary programs, as well as in teacher certification for the elementary and secondary schools.

The following major programs in Arts and Sciences may be begun in Boston, but may involve interchange with the Amherst campus for completion of specialized requirements:

Art (Division of Humanities)
Anthropology (Division of Social Sciences)
Astronomy (Division of Natural Sciences)
Classics (Division of Humanities)
Geology (Division of Natural Sciences)
Journalism (Division of Humanities)
Music (Division of Humanities)

Core Curriculum for the Bachelor of Arts Degree

The following are required:

a. Two semesters of Freshman English; not postponable.

b. Two semesters of Freshman History. This may be postponed to the Sophomore year by Mathematics and Natural Sciences majors who are taking a foreign language in their Freshman year.

c. Four semesters of Natural Sciences or Mathematics, not more than two in the same department. Two semesters of this requirement may be postponed to the Junior year by Mathematics, Humanities and Social Sciences majors.

d. Four semesters of one language (or proficiency at the intermediate level). Beginning language courses may be postponed to the Sophomore year by Mathematics and Natural Sciences majors. In any case, all four semesters must be taken consecutively. Students majoring in the Humanities or Social Sciences are required to take the equivalent of six semesters of one language (one full year beyond the intermediate level).

e. Two semesters of Sophomore English, or one semester of Sophomore English plus a Humanities option. The Humanities option allows a student, with the permission of the Humanities Division, to substitute for English 112, a semester course in one of the following: Art, Music, Philosophy, or Modern European Literature in Translation. The Humanities option may be postponed to the Junior year by Mathematics and Natural Sciences majors.

f. Two semesters of introductory (Sophomore) Social Sciences. This may be postponed to the Junior year by Mathematics and Natural Sciences majors.

Distribution Requirements: four semesters of courses in the Junior and Senior years, all outside of the student's major and two of them outside his division. One of the four courses must be in the Humanities, and two must be above the introductory level.

In a given semester, a student postponing more than one course may not carry more than two courses in the Division in which his major falls.

ACADEMIC DIVISIONS

Division of Humanities

The Division of Humanities offers major programs leading to the degree of Bachelor of Arts in the areas of English, French, Italian, German, Philosophy, Russian, and Spanish. Interdisciplinary and double majors are also under consideration. Specific requirements for major programs will be defined in special announcements. In addition to the core requirements for all B.A. students, those majoring in the Humanities will be expected to take a full year of one foreign language beyond proficiency at the intermediate level.

Following is a typical program for a student planning a major within the Division of Humanities:

Freshman Year

English 101-102
History 111-112
Natural Science or Mathematics
Foreign Language

Sophomore Year

English (or, in second semester, the Humanities option)
Foreign Language
Introductory Social Science
Natural Science or Mathematics

Junior Year

Foreign Language (If needed to complete a year beyond the intermediate level: a foreign language major may begin a second language at this time.)
Major
Major
Distribution Elective
Elective

Senior Year

Major
Major
Major or Honors Thesis
Distribution Elective
Elective

Honors seminars in Philosophy and Literature are being planned for highly qualified students. These would carry one credit a semester, and would be taken in addition to the regular course program. Plans are also being made for other interdisciplinary work. In the senior year qualified students in certain areas will have the opportunity to bring their work to a focus through the writing of a Senior Essay. For further details interested students should consult the Chairman of the Humanities Division.

Division of Social Sciences

The Division of Social Sciences offers courses and major programs in Economics, Economics-Business, History, Politics, and Social Relations (which includes Anthropology, Psychology, and Sociology). There is no formal Pre-Law program; however, interested students are invited to consult the Chairman of the Division for information and advice concerning the programs available. Students desiring combined majors (History and Literature, Politics and Economics, Area Studies and others) must receive prior approval from the Chairman of the Division. All major programs lead to the B.A. degree and are subject to the requirements of the University's undergraduate core curriculum. In addition, the student majoring in any of the Division's programs is required to complete one full year of a foreign language beyond the intermediate level.

A sample program for a Social Sciences major (who enters without advanced placement in language) follows:

Freshman Year

English 101-102
History 111-112
Foreign Language
Natural Science or Mathematics

Sophomore Year

English 111-112
Introductory Social Science (other than History)
Foreign Language
Natural Science or Mathematics

Junior Year

Foreign Language (If needed to complete a year beyond the intermediate level.)
Major
Major
Major or elective
Distribution elective

Senior Year

Major
Major
Major or elective
Elective
Distribution Elective

The Division of Social Sciences plans an Honors Program for major students who achieve a quality point average of 3.0 or better by the end of their freshman year, and who are recommended by the Chairman of the Division. The program would be open to such students as long as the 3.0 cumulative average is maintained or bettered. Each major subject matter area would offer to them special Honors tutorials or seminars, worth one credit per term, to be taken in addition to their regular course work. The opportunity to pursue chosen topics in depth, under the close supervision of a faculty member, during the Sophomore and Junior years is especially valuable to students who would, in the Senior year, be released from certain formal requirements to write a Senior Honors thesis.

Division of Natural Sciences

The Division of Natural Sciences offers courses and major programs in Biology, Chemistry, and Physics. Each major program leads to the B.A. degree and is subject to the University's undergraduate core curriculum.

Although only the B.A. degree is awarded at present, the training in the natural sciences is equivalent to the typical B.S. program and will serve as a basis for graduate study in the sciences, professional study in medicine and related fields, or for entering industry.

A sample program for a Natural Sciences major follows:

Freshman Year

English 101-102
Foreign Language, Introductory Level
Major
Mathematics

Sophomore Year

History 111-112
Foreign Language, Intermediate Level
Major
Subject related to major

Junior Year (In this Natural Sciences Program, the following four courses are the credit equivalent for a Junior).

English 111-112
Major
Major or related subject
Introductory Social Sciences (other than History)

Senior Year

Major
Elective
Elective
Distribution Requirement
Distribution Requirement

Natural Sciences majors with demonstrable advanced proficiency in the required foreign language may take another language or substitute courses to enrich his curriculum. This option is subject to the approval of the Chairman of the Division.

Division of Mathematics

The requirements for a B.A. degree with a major in Mathematics are the successful completion of Mathematics 151, or its equivalent; Mathematics 153, or its equivalent; and seven upper divisional courses. Students entering the University with deficiencies must take the non-credit Mathematics 001 course, which includes a review of algebra and trigonometry.

A typical four-year program for a Mathematics major starting with no deficiencies and a good background of high school mathematics is given below. Honor students may take a special course in the final semester.

Freshman Year

Mathematics 105-106
English 101-102
History 111-112
Foreign Language

Sophomore Year

Mathematics
Mathematics 150-151
English (or Humanities option in the second semester)
Introductory Social Science
Foreign Language

Junior Year

Mathematics
Natural Science
Elective
Distribution Elective

Senior Year

Mathematics
Mathematics
Mathematics (or Honors Course)
Distribution Elective
Elective

A typical first-year program for a student entering with a deficiency in mathematics would be as follows:

Mathematics 001 (Mathematics 101 or 105 in the second semester; 105, 106, or both, must be taken during the summer)
English 101-102
Foreign Language
History 111-112

The following years would be as previously stated.

COURSE DIRECTORY

ART

Renée Arb, Ph.D., Assistant Professor of Art

Art 111 (I), 112 (II) — INTRODUCTION TO THE FINE ARTS.
A survey designed to develop the student's response to original works of art (in various media) studied in historical sequence. Frequent meetings in local museums, with periodic lectures on monuments and masterpieces. Selected readings and short papers required.
3 hours
4 credits each semester. Miss Arb

Art 211 (I) — INTRODUCTION TO ITALIAN RENAISSANCE PAINTING.
A study of the evolution of Renaissance style in such major 15th century painters as Masaccio, Mantegna, Giorgione and Botticelli. Emphasis on the general character of early Renaissance art, as well as on the different aesthetic and intellectual responses of the various local schools.
3 hours
3 credits
Prerequisite: Art 111-112, or equivalent. Miss Arb

Art 212 (II) — THE 'GOLDEN AGE' OF PAINTING.
A close analysis of major works by the high Renaissance masters, especially Leonardo da Vinci, Raphael, and Michelangelo. "Mannerism" or the breakdown of the classical style, and its repercussions on the art of Northern Europe.
3 hours
3 credits
Prerequisite: Art 111-112 or equivalent. Miss Arb

BIOLOGY

Nevin Weaver, Ph.D., Professor of Biology.
John Arthur Freeberg, Ph.D., Associate Professor of Biology.
Warren Kaplan, Ph.D., Associate Professor of Biology.
Ruth Robert Bennett, Ph.D., Assistant Professor of Biology.
Deborah Holmes, Ph.D., Assistant Professor of Biology.
Stanley Robrisch, Ph.D., Assistant Professor of Biology.
Fuad M. Safwat, Ph.D., Assistant Professor of Biology.
Francois Vuilleumier, Licence ès sciences naturelles, Assistant Professor of Biology.
Liane Reif, Ph.D., Lecturer in Biology.
John H. Schultz, Sc.M., Instructor in Biology.
Elaine Wilson, M.S., Instructor in Biology.

Biology 101 (I), 102 (II) — GENERAL BIOLOGY.

An integrated course stressing the principles of biology. Life is examined at the molecular, cellular, organismal, and population level. Structure is considered in relation to function or to illuminate principles.

3 hours lecture, 1 hour discussion, 2 hours laboratory each week

4 credits each semester. Staff

Biology 351 (I and II) — TOPICS IN BIOLOGY.

A narrow field of biology will be considered in great detail. Each topic will be taught by a different faculty member. Several topics may be offered each semester.

1 hour lecture

1 credit each semester. Staff

CHEMISTRY

Ernest I. Becker, Ph.D., Professor of Chemistry (Chairman of the Division of Natural Sciences).
Walter J. Lehman, Ph.D., Associate Professor of Chemistry.
Jean-Pierre Anselme, Ph.D., Assistant Professor of Chemistry.
Peter A. Hurwitz, Ph.D., Assistant Professor of Chemistry.
Nasser Israily, Ph.D., Assistant Professor of Chemistry.
Joseph E. Knoll, Ph.D., Assistant Professor of Chemistry.
Daniel A. Laufer, Ph.D., Assistant Professor of Chemistry.
Lowell M. Schwartz, Sc.D., Assistant Professor of Chemistry.
Walter E. Weibrecht, Ph.D., Assistant Professor of Chemistry.
Leverett J. Zompa, Ph.D., Assistant Professor of Chemistry

Chemistry 101 (I) — CHEMICAL SCIENCE I.

A one year terminal course for non-science majors. How scientists develop laws and theories. Understanding the properties and reactions of chemical compounds by tracing the development of the theory of atomic structure. Emphasis on the unity of science and the interrelation of science and the humanities. No previous courses in science or mathematics are required.

4 hours lecture, 1 hour recitation

4 credits Mr. Lehmann and Staff

Chemistry 102 (II) — CHEMICAL SCIENCE II.

A continuation of Chemistry 101. The foundations of selected modern concepts in chemistry are studied in depth. Topics include systematization of atomic and molecular properties, nature of the chemical bond, behavior of molecules and the kinetic theory, structure of molecules and introductory organic chemistry, the modern structural chemist's tools, and nuclear chemistry. Emphasis on the interdependence of theory and experiment and on the development of unifying concepts.

4 hours lecture, 1 hour recitation

4 credits

Prerequisite: Chemistry 101 Mr. Lehmann and Staff

Chemistry 103 (I) — CHEMICAL PRINCIPLES I.

(Chemistry 103 and 104 are normally taken by students planning to major in science or engineering, or to take further courses in chemistry.)

An introduction to the fundamental principles of chemistry including structure, the periodic table of the elements, chemical bonding and molecular structure, states of matter based on kinetic theory, chemical kinetics, equilibria, and elementary thermodynamics. The laboratory work is an introduction to methods of quantitative chemical techniques. Experimental problems dealing with chemical reactions, gravimetric and volumetric analysis, and methods of phase separation are considered.

2 hours lecture, 1 hour recitation, 6 hours laboratory

5 credits Mr. Schwartz, Mr. Knoll and Staff

Chemistry 104 (II) — CHEMICAL PRINCIPLES II.

Introduction to electrochemistry, oxidation-reduction reactions, acid-base systems, and a survey of the chemical properties of elements based on principles already introduced. The laboratory continues to present methods of separation and analysis.

2 hours lecture, 1 hour recitation, 6 hours laboratory

5 credits

Prerequisite: Chemistry 103 Mr. Schwartz, Mr. Knoll and Staff

Chemistry 151 (I) — ANALYTIC CHEMISTRY I.

An introduction to the principles and methods of quantitative analysis. Equilibrium, acids and bases, solubility product and chemical reactions are presented. The laboratory work illustrates the methods of gravimetric and volumetric analysis.

6 hours laboratory

2 credits

Prerequisite: Chemistry 104 Mr. Weibrecht and Staff

Chemistry 152 (II) — ANALYTIC CHEMISTRY II.
In part a continuation of Chemistry 151. This course in addition presents the principles and the methods for the separation and identification of common ions.
6 hours laboratory
2 credits
Prerequisite: Chemistry 151 Mr. Weibrecht and Staff

Chemistry 153 (I), 154 (II) — ORGANIC CHEMISTRY.
An intensive survey of the synthesis and properties of the main classes of organic compounds including mechanistic discussions of their reactions. Concurrent enrollment in Chemistry 155-156 required.
3 hours
3 credits
Prerequisite: Chemistry 104 Mr. Anselme and Staff

Chemistry 155 (I), 156 (II) — ORGANIC CHEMISTRY LABORATORY.
The laboratory illustrates the preparation, purification and identification of organic compounds by classical experimental methods with an introduction to modern purification, analytical and instrumental techniques.
6 hours laboratory
2 credits
Prerequisite: Concurrent enrollment in Chemistry 153-154 Mr. Anselme and Staff

ECONOMICS

Harold Wolozin, Ph.D., Professor of Economics.

Reuben Miller, M.A., Instructor in Economics.

Michelle H. L. Roos, M.B.A., Instructor in Economics.

Economics 121 (I), 122 (II) — PRINCIPLES OF ECONOMICS.
An introduction to the methods of economic analysis and their application to problems of society.
3 hours
4 credits each semester Staff

Economics 131 (I), 132 (II) — PRINCIPLES OF ACCOUNTING.
An introduction to the principles of collecting, recording and interpreting accounting data.
3 hours
3 credits each semester Staff

Economics 215 (I) — ECONOMIC THEORY I.
The determination of national income and output, employment stability and inflation.
3 hours
3 credits each semester
Prerequisite: Economics 121, 122 Mr. Wolozin

Economics 216 (II) — ECONOMIC THEORY II.
The behavior of the business firm and industry, the price structure.

3 hours
3 credits
Prerequisite: Economics 121, 122 Mr. Wolozin

Economics 225 (I) – 226 (II) — MONEY AND FINANCE.
The development and role of commercial banking, the Federal Reserve system and other financial institutions. The impact of non-financial institutions on the money market. Monetary theory including the theory of inflation.
3 hours
3 credits each semester
Prerequisite: Economics 121, 122 Mr. Miller

Economics 235 (I) — INTERNATIONAL ECONOMICS.
Theory of international trade, the balance of payment and its adjustment under various exchange rate systems, specific problems concerning the United States, international cooperation, international organizations.
3 hours
3 credits
Prerequisite: Economics 121, 122 Miss Roos

ENGLISH

Alfred Riggs Ferguson, Ph.D., Professor of English.
Alvan S. Ryan, Ph.D., Professor of English (Chairman of the Division of Humanities).
Max Bluestone, Ph.D., Associate Professor of English.
Irvin Stock, Ph.D., Associate Professor of English.
Adrianne Baytop, Ph.D., Assistant Professor of English.
Joel Mac Blair, Ph.D., Assistant Professor of English.
Charles A. Campbell, Ph.D., Assistant Professor of English.
Marjorie Collins, Ph.D., Assistant Professor of English.
Andrew R. Hawley, Ph.D., Assistant Professor of English.
Seymour Katz, Ph.D., Assistant Professor of English.
Charles Knight, Ph.D., Assistant Professor of English.
John Marvin, M.A., Assistant Professor of English.
Richard McCleary, Ph.D., Assistant Professor of English.
Robert Risse, Ph.D., Assistant Professor of English.
James G. Sweeney, Ph.D., Assistant Professor of English.
Frederick Willey, Ph.D., Assistant Professor of English.
Martha Collins Finney, M.A., Instructor in English.
James Leland Grove, A.M., Instructor in English.
Shaun O'Connell, M.A., Instructor in English.
Dorothy Shukri, A.G.S.M., Instructor in English.
George Slover, M.F.A., Instructor in English.
Cornelia Veenendaal, A.M., Instructor in English.

Mary Anne Ferguson, Ph.D., Lecturer in English.
Donald Gropman, M.A., Lecturer in English.
Louis Edward Roberts, M.A., Lecturer in English.
Daniel Wakefield, A.B., Lecturer in English.

English 101 (I), 102 (II) — GREAT BOOKS AND COMPOSITION.
Introduction to major works of world literature. Biblical, Classical and Medieval the first semester, Renaissance and 18th century the second semester, through close study and discussion combined with training in effective written expression.
3 hours
4 credits each semester Staff

English 111 (I) — GREAT BOOKS AND COMPOSITION.
Introduction to major works of 19th century world literature through close study and discussion combined with continued practice in writing.
3 hours
4 credits
Prerequisite: English 101, 102 Staff

English 112 (II) — GREAT BOOKS AND COMPOSITION.
Introduction to major works of 20th century world literature through close study and discussion combined with continued practice in writing. Substitution possible; see page 22.
3 hours
4 credits
Prerequisite: English 111 Staff

English 201 (I), 202 (II) — AN INTRODUCTION TO BRITISH LITERATURE.
An introduction to British Literature emphasizing the development of literary styles and modes and the relationship of literature to social and intellectual history. The first semester covers the chronological period 1350-1750, the second, 1750-1890.
3 hours
3 credits each semester
Prerequisite: English 111 Mr. Knight

English 211 (I), 212 (II) — ADVANCED COMPOSITION.
Intensive study and practice of critical reading and expository writing: reading of models similar in content and style to written assignments. The course will consider films, books, reportage and the essay.
3 hours
3 credits each semester
Permission of instructor required Mr. Wakefield

English 221 (I), 222 (II) — THE WRITING OF SHORT FICTION.
An introductory course in the writing of the short story and related forms of short fiction. (Poetry or plays may be submitted in special instances.)
3 hours
3 credits each semester
Permission of instructor required Mr. Marvin

English 231 (I), 232 (II) — SHAKESPEARE'S PLAYS: A SURVEY.
Topics in the study of Shakespeare and a survey of his plays.
3 hours
3 credits each semester
Prerequisite: English 101, 102 Mr. Bluestone, Mr. Sweeney

English 241(I), 242 (II) — HEBREW LITERATURE IN TRANSLATION.
A survey of Hebrew literature from post-Biblical times including the Apocrypha, Talmud and Medieval poetry in the first semester, and selections from modern Jewish literature in the second semester.
3 hours
3 credits each semester
Permission of instructor required Mr. Cohen

English 281 (I) — AMERICAN LITERATURE, 1680-1830.
Readings in early American Literature from the Puritans through the Revolutionary period and concluding with Bryant, Irving, and Cooper.
3 hours
3 credits
Prerequisite: English 101, 102 Mr. Katz

English 282 (II) — THE AMERICAN RENAISSANCE.
Readings in the major authors of the 19th century including Emerson, Thoreau, Hawthorne, Melville and Twain.
3 hours
3 credits
Prerequisite: English 101, 102 Mr. Ferguson, Mr. Katz

FRENCH

Frederick Allan Busi, Ph.D., Assistant Professor of French.
Mary Lee Evans Kimball, Diplôme de l'école du Louvre, Assistant Professor of French.
John MacCombie, Ph.D., Assistant Professor of French.
Gerald C. Volpe, Ph.D., Assistant Professor of French and Italian.
Francine Abadie, Licence ès Lettres, Instructor in French.
David Buskey, B.A., Instructor in French.
Livia Calice, Instructor in French.
Jacqueline Foure De Suze, Diplôme d'Etudes Françaises Degré Supérieur, Instructor in French.
Claudine Hunting, Diplôme d'Etudes Supérieures d'Anglais, Instructor in French.
Betty McIlvain, M.A., Instructor in French.
Marilyn Sorenson, Licence de Concert, Instructor in French.
Suzanne Tarica, Certificat de Licence, Instructor in French.
Rose Abendstern, B.A., Lecturer in French.
Josette Betkoune, Diplôme d'Etudes Supérieures ès Sciences Economiques, Lecturer in French.

French 111 (I), 112 (II) — ELEMENTARY FRENCH.
For students who have no creditable training in French. Intensive practice in the four language skills, with an audio-visual approach.
5 class hours, 2 laboratory periods
4 credits each semester Staff

French 121 (I), 122 (II) — INTERMEDIATE FRENCH.
An intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature.
4 class hours, 1 optional laboratory period
4 credits each semester Staff

French 231 (I) — SURVEY OF LITERATURE.
A general survey of French literature and culture from the 11th century through the mid-18th century.
3 hours
3 credits
Prerequisite: French 122 or equivalent (i.e. proficiency in language) Staff

French 232 (II) — SURVEY OF LITERATURE.
A general survey of French literature and culture from the mid-18th century through the mid-20th century.
3 hours
3 credits
Prerequisite: French 122 or equivalent (i.e. proficiency in language) Staff

French 241 (I), 242 (II) — TRADUCTION, STYLISTIQUE ET COMMUNICATION ORALE.
An intensive study of composition, problems of translation, and idiomatic oral communication: composition, explications de texte, oral reports and translations based on contemporary French, English and American texts.
3 class hours, 2 laboratory periods
3 credits each semester
Permission of instructor required Mr. MacCombie

French 252 (I) — LE CLASSICISME.
A study of classical French literature (17th century), including works by Corneille, Moliere, Racine, Boileau, La Fontaine.
3 class hours, 1 laboratory period (listening to theatrical texts)
3 credits Mrs. Kimball

French 256 (II) — LE ROMAN DU DIX-NEUVIEME SIECLE.
A study of the French novel in the 19th century, including works by Chateaubriand, Gautier, Nerval, Stendahl, Balzac, Flaubert, Goncourt, Maupassant, Zola, Huysmans.
3 hours
3 credits Mr. Busi

GERMAN

Lynn Freeman Dhority, Ph.D., Assistant Professor of German.
Alfred Hoelzel, Ph.D., Assistant Professor of German.
Andrew Boelcskevy, M.A., Instructor in German.
Luise H. Bronner, M.A., Instructor in German.
Peter Ott, M.A., Instructor in German.
Arnold Ulbrich, M.A., Instructor in German.

German 111 (I), 112 (II) — ELEMENTARY GERMAN.
For students with no creditable training in German. Intensive practice in understanding and reading, speaking, pronunciation and intonation, close attention to an analysis of grammatical structure, to the building of an adequate vocbulary, and to the ability to read simple prose with reasonable fluency.
4 class hours, 2 laboratory hours
4 credits each semester Staff

German 121 (I), 122 (II) — INTERMEDIATE GERMAN.
Intensive review of grammar and further development of all four language skills. The first semester includes an introduction to Germany's cultural heritage. The emphasis in the second semester will be on the reading and discussion in German of several short prose works by outstanding modern authors.
4 hours
4 credits each semester
Prerequisite: German 112 or equivalent Staff

German 231 (I), 232 (II) — INTRODUCTION TO GERMAN LITERATURE.
Reading of representative masterpieces of German prose, drama, and poetry from the Enlightenment to the present day. Works will be discussed in their cultural and historical context. Short papers will be required.
3 hours
3 credits each semester
Prerequisite: German 112 or equivalent Staff

HISTORY

Paul F. Boller, Jr., Ph.D., Professor of History.
Richard Powers, Ph.D., Professor of History.
Louis Ruchames, Ph.D., Professor of History.
Thomas N. Brown, Ph.D., Associate Professor of History.
Paul A. Gagnon, Ph.D., Associate Professor of History (Chairman of the Division of Social Sciences).
Robert M. Berdahl, Ph.D., Assistant Professor of History.
Nathan I. Huggins, Ph.D., Assistant Professor of History.
Roger Warren Prouty, Ph.D., Visiting Lecturer in History.
Seymour Shapiro, Ph.D., Assistant Professor of History.

Walter Frederick Bense, B.D., Instructor in History.
Harvey Fischtrom, M.A., Instructor in History.
Rodney W. Kilcup, M.A., Instructor in History.
Esther Kingston, M.A., Instructor in History.
Jonathan Leibowitz, M.A., Instructor in History.
Timothy McCarthy, M.A., Instructor in History.
Mordecai Melnitsky, A.B., Instructor in History.
Lester A. Segal, M.A., Instructor in History.
Martha Tolpin, M.A., Instructor in History.

History 111 (I), 112 (II) — MODERN WESTERN CIVILIZATION.
The historical development of European civilization, ideas and institutions, including the place of America in the Western world. Training in oral and written expression.
3 hours
4 credits each semester Staff

History 125 (I), 126 (II) — AMERICAN HISTORY.
A survey of American history from 1763 to the present. The expansion and consolidation of the American Union, the development of national and international policies and the cultural and economic forces that shaped them.
3 hours
4 credits each semester
Prerequisite, History 111, 112 Messrs. Boller, Brown, Huggins, Ruchames

History 231 (I), 232 (II) — ENGLISH HISTORY.
An introduction to the constitutional, political, economic, social, religious and intellectual history of England. From the eve of the Norman Conquest to Restoration in the first semester, from the Restoration to the present in the second.
3 hours
3 credits each semester
Prerequisite: History 111, 112 Mr. Shapiro

History 235 (I), 236 (II) — RUSSIAN HISTORY.
A survey of the political, economic, social and intellectual development of Russia. From Kiev to the emancipation of the serfs (1861) in the first semester, through the Soviet Union in the Second World War in the second.
3 hours
3 credits each semester
Prerequisite: History 111, 112 Miss Kingston

ITALIAN

Gerald C. Volpe, Ph.D., Assistant Professor of French and Italian.
Adorna Walia, Ph.D., Assistant Professor of Spanish and Italian.

Italian 111 (I), 112 (II) — ELEMENTARY ITALIAN.
For students who have had no creditable training in Italian. Intensive practice in the four language skills.
4 class hours, 2 laboratory hours
4 credits each semester Staff

Italian 121 (I), 122 (II) — INTERMEDIATE ITALIAN.
Rapid extensive reading of modern works and drill in speaking in the first semester, practice in speaking and writing will continue inthe second semester and one major classic will be read.
4 hours.
4 credits each semester Staff

LATIN

Renata Poggioli, Ph.D., Assistant Professor of Classics.

Latin 111 (I), 112 (II) — ELEMENTARY LATIN.
For students who have no creditable training in Latin. Intensive practice in language skills with introductory readings.
3 hours
4 credits each semester Mrs. Poggioli

Latin 121 (I), 122 (II) — INTERMEDIATE LATIN.
Review of reading skills. Selective readings in Latin literature.
3 hours
4 credits each semester
Prerequisite: Latin 112 or equivalent Mrs. Poggioli

Latin 231 (I), 232 (II) — INTRODUCTION TO LATIN LITERATURE.
Intensive readings of masterpieces of Latin Literature. (Virgil, *Aeneid, Eclogues;* Horace, *Odes, Satires;* Tacitus, *Annals,* Books I to XII; Lucretius, *De Rerum Natura.)*
3 hours
3 credits
Prerequisite: Latin 122 or equivalent Mrs. Poggioli

MATHEMATICS

*Alfonso G. Azpeitia, Ph.D., Professor of Mathematics.**
Taffee T. Tanimoto, Ph.D., Professor of Mathematics (Chairman of the Division of Mathematics).
Geza Schay, Jr., Ph.D., Associate Professor of Mathematics.
Deanne Dickinson, Ph.D., Assistant Professor of Mathematics.
Richard J. Greechie, Ph.D., Assistant Professor of Mathematics.
John A. Lutts, Ph.D., Assistant Professor of Mathematics.
John J. H. Miller, Ph.D., Assistant Professor of Mathematics.
Some Nath Mukherjee, Ph.D., Instructor in Mathematics.

Joseph Russell, M.A., Instructor in Mathematics.
Carl Cohen, M.A., Lecturer in Mathematics.
Richard J. Turyn, Ph.D., Lecturer in Mathematics.
Jacopo Barsotti, Laurea in Matematica, Visiting Professor of Mathematics.
*On leave, 1966-1967

Math 001 (I, II) — ALGEBRA AND TRIGONOMETRY REVIEW
A review of high school algebra and trigonometry with special emphasis on those topics which are of immediate importance to go on in College Algebra and Calculus.
3 hours
No credit Staff

Math 101 (I, II) — MODERN COLLEGE ALGEBRA
The course consists of the basic notions of abstract sets, relations, operations and their applications to logic and the real number system. Ideas of groups, rings, and fields will be introduced with applications to polynomials, matricies and the real number field. Many of the classical exercises will be considered in terms of the basic algebraic ideas.
3 hours
4 credits Staff

Math 102 (I, II) — FINITE MATHEMATICS
A course intended for majors in the Social Sciences, Business Administration, etc. Discrete probability and application to statistics in terms of empirical histograms, distribution functions. Elements of hypothesis testing and decision theory all in the discrete case.
3 hours
4 credits
Prerequisite: Math 101 or equivalent Staff

Math 104 (I, II) — SURVEY OF CALCULUS
This course is an elementary development of the continuous aspects of Math 102. The calculus is developed intuitively and applied to probability, statistics and decision theory.
3 hours
4 credits
Prerequisite: Math 102 or equivalent Staff

Math 105 (I, II) — ANALYTIC GEOMETRY AND CALCULUS I.
Topics from algebra, introductions to analytic geometry, functions, limits and derivatives, differentiation and application to algebraic and transcendental functions.
3 hours
4 credits
Prerequisite: Math 101 or equivalent Staff

Math 106 (I, II) — ANALYTIC GEOMETRY AND CALCULUS II.
This course is a continuation of Mathematics 105. The topics covered are: Integration application of the integral, sequences and series.
3 hours
4 credits
Prerequisite: Math 105 or equivalent Staff

Math 150 (I), 151 (II) — DIFFERENTIAL EQUATIONS AND ALLIED TOPICS I AND II.
An introduction to linear algebra with applications to matrix differential and integral operators. Sequences and series. Partial differentiation and application of the afore mentioned linear algebra to multivariate calculus and geometry.
3 hours
4 credits
Prerequisite: Math 106 or equivalent — Staff

Math 152 (I), 153 (II) — LINEAR ALGEBRA I AND II.
Groups, rings, integral domains, fields, vector spaces.
3 hours
4 credits
Prerequisite: Math 106 or equivalent — Staff

MUSIC

John Huggler, B.M., Assistant Professor of Music.
Nicholas Tawa, A.M., Instructor in Music.

Music 111 (I), 112 (II) — INTRODUCTION TO MUSIC.
Discussion of basic music materials, principles of design, and the cultural significance of representative works in historical sequence.
3 hours
4 credits each semester — Mr. Huggler

Music 121 (I), 122 (II) — BASIC EAR TRAINING AND THEORY SKILLS.
A course on harmony, melody, and general music theory.
3 hours
4 credits each semester
Permission of instructor required — Mr. Huggler

Music 241 (I) — AMERICAN MUSIC — 19th CENTURY.
A study of the growth and development of American music to the year 1900 (Charles Ives) in both its rural-folk and its urban aspects.
3 hours
3 credits — Mr. Tawa

Music 242 (II) — AMERICAN MUSIC — 20th CENTURY.
A study of the present day ferment in American music, and the gradual emergence of American composers of international stature.
3 hours
3 credits — Mr. Tawa

Music 251 (I, II) — HISTORY AND DEVELOPMENT OF JAZZ IN AMERICA.
Study of the development of jazz from its origins to the present.
3 hours
3 credits
Permission of the instructor required — Mr. Huggler

PHILOSOPHY

Bernard Elevitch, Ph.D., Assistant Professor of Philosophy.
Annette Nemore, M.A., Instructor in Philosophy.

Philosophy 101 (I) — INTRODUCTION TO PHILOSOPHY.

An introduction to important general questions, ideas, theories, and methods of inquiry which have given direction to Western Thought.

3 hours

4 credits Mr. Elevitch, Miss Nemore

Philosophy 102 (II) — INTRODUCTION TO LOGIC.

An examination of the forms of valid reasoning, deductive and inductive, and of their role in reflective thinking. Discussion of the functions of language, informal fallacies the syllogism and other types of formal argument, methods of science and modern views of the nature of logic and its relation to other fields.

3 hours

4 credits Staff

Philosophy 205 (I) — ANCIENT AND MEDIEVAL PHILOSOPHY.

Classical philosophy from the pre-Socratic philosophers through Plato and Aristotle. The central issues of medieval philosophy will be represented by the ideas of St. Augustine and St. Thomas Aquinas on reason and revelation, the status of universals and proofs of God's existence.

3 hours

3 credits

Prerequisite, Philosophy 101 or 102 or permission of the instructor Mr. Elevitch

Philosophy 206 (II) — MODERN PHILOSOPHY.

Emphasis on the views of the Continental Rationalists (Descartes, Spinoza, Leibniz) and the British Empiricists (Locke, Berkeley, Hume) in light of general intellectual developments from the Renaissance to the Enlightenment.

3 hours

3 credits

Prerequisite, Philosophy 101 or 102 or permission of the instructor Staff

Philosophy 210 (I) — INTRODUCTION TO ETHICS.

An introduction to the main problems and theories concerning the nature, scope, and validation of value judgments related to moral actions. Readings from representative, traditional and contemporary philosophers.

3 hours

3 credits

Prerequisite, Philosophy 101 or 102 or permission of the instructor Staff

Philosophy 280 (II) — SOCIAL AND POLITICAL PHILOSOPHY.

An introduction to representative problems and themes of social and political philosophy, with attention to such concepts as human rights, liberty, justice, equality, law, social obligation, and the social contract. Readings will be chosen primarily from traditional sources in philosophy.

3 hours

3 credits

Prerequisite, Philosophy 101 or 102 or permission of instructor Mr. Elevitch

PHYSICS

George Salzman, Ph.D., Professor of Physics.
Donald H. Lyons, Ph.D., Associate Professor of Physics.
Freda Salzman, Ph.D., Associate Professor of Physics.
Marvin M. Antonoff, Ph.D., Assistant Professor of Physics.
Edward S. Ginsberg, Ph.D., Assistant Professor of Physics.

Physics 101 (I), 102 (II) — CONCEPTS OF MODERN PHYSICS.

A survey of modern physics for non-science majors, with emphasis on the physical concepts, the experimental aspects, and their interrelation. Major developments, such as the theories of relativity and quantum mechanics, are presented from a historical viewpoint to illustrate the role of the scientific method in the evolution of physical theories. Several areas of current interest such as astrophysics, elementary particle physics, nuclear physics and solid state physics are discussed.

2 hours lecture, 2 hours recitation, 1 hour demonstration
4 credits each semester Staff

Physics 110 (I), 111 (II), 112 (I) — FUNDAMENTALS OF PHYSICS.

A three semester sequence beginning each fall term. Intended primarily for students planning to major in a physical science or mathematics. The fundamental areas of physics are covered in an integrated development of classical and modern concepts. Mathematical methods for the solution of problems are used throughout the course. Experimental aspects are presented through demonstrations, films and in laboratory work.

2 hours lecture, 2 hours recitation, laboratories to be arranged
4 credits each semester
Prerequisite: Concurrent registration in calculus or consent of instructor Staff

POLITICS

George Goodwin, Jr., Ph.D., Professor of Politics.
John W. Ryan, Ph.D., Professor of Politics.
Glenn Tinder, Ph.D., Professor of Politics.
Emil Starr, Ph.D., Associate Professor of Politics.
Harvey R. Glasser, A.M., Instructor in Politics.
David A. Nichols, M.A., Instructor in Politics.

Politics 121 (I) — CONTEMPORARY POLITICAL IDEAS AND INSTITUTIONS.

Political ideas, institutions and processes, as illustrated by the Communist, Fascist and democratic systems of the 20th century.

3 hours
4 credits Staff

Politics 122 (II) — GOVERNMENT AND POLITICS OF THE UNITED STATES.
The three main branches of the national government, federalism, political parties and interest groups, and governmental functions.
3 hours
4 credits
Prerequisite: Politics 121 — Staff

Politics 201 (I) — POLITICAL PARTIES.
The American political process, with emphasis on political parties, pressure groups, public opinion. Student participation in current political campaigns whenever feasible.
3 hours
3 credits
Prerequisite: Politics 122 or permission — Mr. Goodwin

Politics 241 (I) — METROPOLITAN POLITICS.
Municipal politics, organization and functions; the impact of recent social and economic changes upon city, suburban and intergovernmental politics in metropolitan regions.
3 hours
3 credits
Prerequisite: Politics 122 or permission — Mr. Nichols

Politics 244 (II) — THE FEDERAL SYSTEM.
The consequences of the division of powers for national, state and local politics.
3 hours
3 credits
Prerequisite: Politics 122 or permission — Mr. Nichols

Politics 251 (I) — EUROPEAN COMPARATIVE GOVERNMENT.
The political institutions of the major European states; emphasis on Great Britain, France and Germany.
3 hours
3 credits
Prerequisite: Politics 121 — Mr. Glasser

Politics 254 (II) — GOVERNMENT AND POLITICS OF THE SOVIET UNION.
The historical and ideological origins of the Soviet Union; the Communist party under Lenin, Stalin and in the post-Stalin period; contemporary Soviet ideology and Western theories of totalitarianism.
3 hours
3 credits
Prerequisite: Politics 121 — Mr. Glasser

Politics 351 (I), 352 (II) — POLITICAL THOUGHT.
The history of Western political ideas; in the first semester, the Ancient and Medieval origins and development of the main political ideas of the West; in the second, political thought from the time of Machiavelli to that of Marx.
3 hours
3 credits each semester
Prerequisite: Politics 121 or permission — Mr. Tinder

RUSSIAN

David T. Edsall, A.M., Instructor in Russian.

Russian 111 (I), 112 (II) — ELEMENTARY RUSSIAN.
For students who have had no creditable training in Russian. Development of the four language skills.
4 class hours, 2 laboratory hours
4 credits each semester Mr. Edsall

Russian 121 (I), 122 (II) — INTERMEDIATE RUSSIAN.
Intensive review on grammar. Continued practice in speaking, writing and hearing. Reading of selected fiction and non-fiction.
4 hours
4 credits each semester Mr. Edsall

SPANISH

James J. Ryan, Ph.D., Associate Professor of Spanish.
Rosalind J. Cohen, Ph.D., Assistant Professor of Spanish.
Adorna Walia, Ph.D., Assistant Professor of Spanish and Italian.
Jose de Jesus Barba-Martin, M.A., Instructor in Spanish.
Rogelio Reyes, A.B., Instructor in Spanish.
Lourdes Alvarez, A.B., Lecturer in Spanish.

Spanish 111 (I), 112 (II) — ELEMENTARY SPANISH.
For students who have no creditable training in Spanish. An intensive study of the four language skills based on an audio-lingual approach.
4 class hours, 2 laboratory hours
4 credits each semester Staff

Spanish 121 (I), 122 (II) — INTERMEDIATE SPANISH.
An oral review and further study of the language skills with readings in Spanish and Latin-American Literature and culture.
4 hours
4 credits each semester
Prerequisite: Spanish 112 or equivalent Staff

Spanish 231 (I), 232 (II) — INTRODUCTION TO SPANISH AND LATIN-AMERICAN LITERATURE.
Selected readings in the literature and culture of the Hispanic world. Conducted in Spanish. Oral reports and papers based on the readings will be required.
3 hours
3 credits each semester
Prerequisite: Spanish 122 or equivalent Staff

Spanish 241 (I), 242 (II) — SPANISH LITERATURE.
Intensive reading of masterpieces of Spanish literature. Conducted in Spanish. Written and oral reports will be required.
3 hours
3 credits each semester
Prerequisite: Spanish 122 or equivalent, and permission of instructor — Mr. Ryan

SOCIAL RELATIONS

David Cooperman, Ph.D., Professor of Sociology.*
Eugene V. Walter, Ph.D., Professor of Sociology.
Paul J. Rhudick, Ph.D., Assistant Professor of Psychology.
Leonard Weiner, Ph.D., Assistant Professor of Psychology.
Edward J. Ryan, Ph.D., Visiting Lecturer in Anthropology.
Lawrence E. Chaitkin, B.A., Instructor in Sociology.
Mickey K. Clampit, M.A., Instructor in Social Relations.
Marlene Dobkin, M.A., Instructor in Anthropology.
Philip Helfaer, M.A., Instructor in Psychology.
Lucille N. Kaplan, M.A., Lecturer in Anthropology.
Marion D. Kilson, M.A., Instructor in Anthropology.
*On leave of absence, 1966-67

Social Relations 121 (I) — INTRODUCTION TO SOCIAL RELATIONS I.
The development and behavior of the person in society and culture; psycho-biological processes; personality; socialization, patterns of deviation, the life cycle, family and kinship, institutions, systems of culture.
3 hours
4 credits — Staff

Social Relations 122 (II) — INTRODUCTION TO SOCIAL RELATIONS II.
Patterns of interaction and systems, villages, towns, and cities. The community, social structure, social change. Reactions to success and deprivation, personal stress and social change.
3 hours
4 credits
Prerequisite: Social Relations 121 — Staff

Social Relations 225 (I) — GROUP PROCESS.
Interpersonal behavior and group development through observation of the group itself and readings from psychology, anthropology and sociology.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Helfaer

Social Relations 227 (I) — METHODS OF EMPIRICAL RESEARCH.
Techniques of collecting, organizing and analyzing data. Research in the community.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Ryan

Social Relations 230 (II) — ATTITUDES AND BELIEF SYSTEMS.
Psychological study of attitudes, belief and value systems. Emphasis on religious systems.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Helfaer

Social Relations 235 (I) — COMMUNITY PSYCHOLOGY.
Problems of psychological adjustment to the urban community. Psychiatric programs designed to meet these problems.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Weiner

Social Relations 237 (I and II) — DEVELOPMENTAL PSYCHOLOGY.
The development of the child from embryo to adolescence. The major theoretical explanations of behavior capacities.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Rhudick, Mr. Weiner

Social Relations 240 (II) — ABNORMAL PSYCHOLOGY.
Study of the etiology, dynamics and treatment of psychological deviance.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Mr. Rhudick

Social Relations 255 (I) — CULTURE AND PERSONALITY.
Survey of theories and research in the relation between psychological processes and cultural systems.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Miss Dobkin

Social Relations 256 (II) — THE NEGRO IN AMERICA.
Psychological and cultural aspects of Negro life in the New World from the period of slavery to the present.
3 hours
3 credits
Prerequisite: Social Relations 121, 122 or permission — Miss Dobkin

Social Relations 275 (I) — DEVIANCE.

Conception and theories of deviance as a social process. Selected instances of social individual pathology.

3 hours

3 credits

Prerequisite: Social Relations 121, 122 or permission — Mr. Clampit

Social Relations 282 (II) — ELEMENTS OF SOCIOLOGICAL THEORY.

Historical introduction to concepts and theories through selected works of major writers in the classical tradition.

3 hours

3 credits

Prerequisite: Social Relations 121, 122 or permission — Mr. Walter

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DONALD H. LYONS, B.A. *(University of Buffalo)*, M.A., Ph.D. *(University of Pennsylvania), Associate Professor of Physics.*

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ALVAN S. RYAN, B.S. *(University of Massachusetts)*, A.M. *(Harvard University)*, Ph.D. *(State University of Iowa), Professor of English, Chairman of the Division of Humanities.*

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